

Flexible Solutions for Wide Belt Sanding Machines



S6 XTTX 1350

Files Sanding Models

TT / XCT / XTT / XTTX



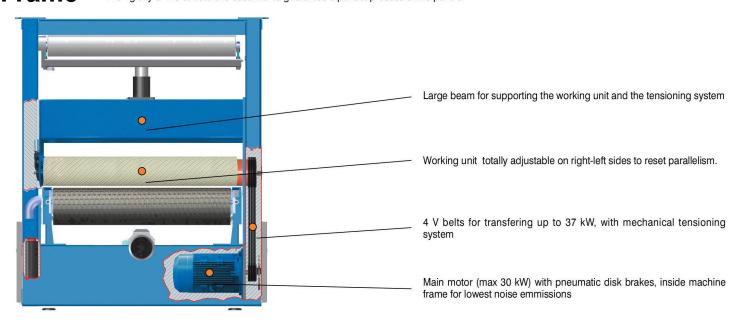
Wide belt Sanding Machines





Frame

The rigidity of the structure is essential to guarantee a perfect process of the panels.



Feed system designed for heavy duty purposes and long lasting

Rubber feed belts with 3 layers of cloth without joint, for best surface planarity and longer lasting; thick rubber layer on top to allow many re-grinding operations over the years of utilization.

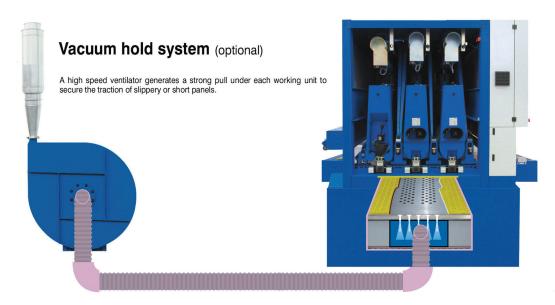
Vacuum intakes positioned under the working units to diminish the requirement of vacuum-power and to concentrate the vacuum pull only where needed.

T1 Steel feed-table with surface hardness of 260 Brinnel for longest lasting grinded to fine finish to prevent internal wearing of the feed belt.

Large driven traction roller for wide contact area, not to stress the feed belt - traction roller rubber covered to increase the capacity of traction and to avoid sliding (that can deteriorate the feed belt).

Feed speed variation controlled by inverter from 3 m/min to 20 m/min

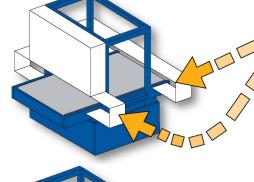






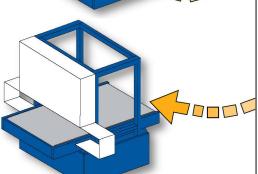


Is utilized to smooth the grain of the wood-veneer and also of the lacquer surface to easy the longitudinal sanding operations, help flattening the surface of the panels. The cross belt unit is standard equipped with the electronic controlled sectioned pads TPR32 with 42 sections/1350 pitch 32 mm (opt. TPR16 - 84 sections/1350 pitch 16 mm).



X7 - External Cross-Belt Units

The Sanding and the Lamellar belts are running at <u>different speed</u> to improve the quality of surface finish, especialy indicated for high-gloss processing.









C25 - Cylinder

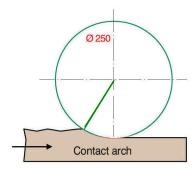
CHOSTA LEVIGATRICI

C25

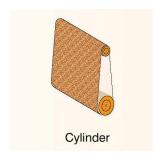
The rubber hardness determines the level of adaptation of the sanding action of the cylinder on the panel surface in white-wood/lacquer sanding operations.

A soft rubber covered cylinder has more adaptability to the unevenness of the surface therefore is preferred for veneer-lacquer sanding operations, while a hard rubber cylinder has less or no adaptability to the surface (thus better for calibrating operations).





For calibrating a smaller diameter cylinder is more aggressive, the angle of contact is more open, the surface of contact is narrower, this means less fritction and more take away.



GSE Electronic Grit-Set (optional)

Centesimal positioning of the working level of the cylinder unit. Exclusion of cylinder in emergency (stand-by)



GSP Pneumatic Grit-Set (optional)

To position by pre-set steps the working level of the cylinder unit. - Exclusion of cylinder in emergency (stand-by)







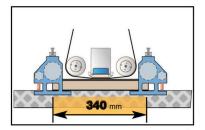




Pressure units

The safe traction of the work-pieces is determined by the rigidity of the pressure units; at same time these units must be able to adapt to thickness variations of work-pieces, this is the reason why we link them with springs pneumatic pistons to the machine frame, to be rigid or flexible depending on mode of utilization (calibrating or wheer-lacquer sanding).

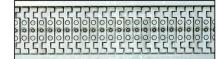






CA - Electronic controlled sectioned pads

This is the classic sanding unit for finishing the surface; they give an ideal protection of edges and corners of panels; the wide surface of contact is giving a flat look to the work-pieces surface. The sectioned pads with electronic control of the timing of intervention and of the pressures of utilization can compensate thickness and planarity differences up to 2 mm



CA 16

pitch of sections 16 mm n° 84 sections with a working width of 1350 mm



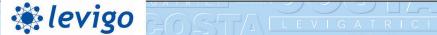


CA 32

pitch of sections 32 mm n° 42 sections with a working width of 1350 mm



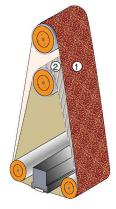
Quick - easy change of graphite cloth and inspection of the felt-rubber and of the steel blade inserts





The working pressure of the pad sections is applied onto the above belt through right famellar parts in the figure of the pad sections is applied onto the above belt through right famellar parts in the felt lamellas on the abrasive belt, preventing the transmission of scratces. hes or defects (caused) by the graphite cloth .

This "superfinishing" process assures a very homogeneous surface finish even with very fine grit belts, a result very important in the staining process, thank to the high uniformity of absorption of the stain in the surface.



The Superfinish unit requires the abrasive belt length of 2620 mm (1). The lamellar felt belt (2) has a length of 2120 mm.

The lamellar belt gives further advantages:

- the air flow between the felt stripes of the lamellar belt cools the abrasive belt:
- it is possible to utilise pads wider than normal;
- · utilizing lamellar belts with different ratio full/empty of the lamellas, it is possible to diversify the finishing of the surface;
- thank to the independency of the tensioning and tracking systems, in case of necessity we can take out the lamellar belt and work with the sanding belt only.

Both the lamellar and the abrasive belts have their own tension system independent one another (to be able to work also without lamellar belt, just with a standard sanding belt)

The pneumatic control are positioned in the sanding belt insertion side.





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pitch of sections 32 mm n° 42 sections with a working width of 1350 mm







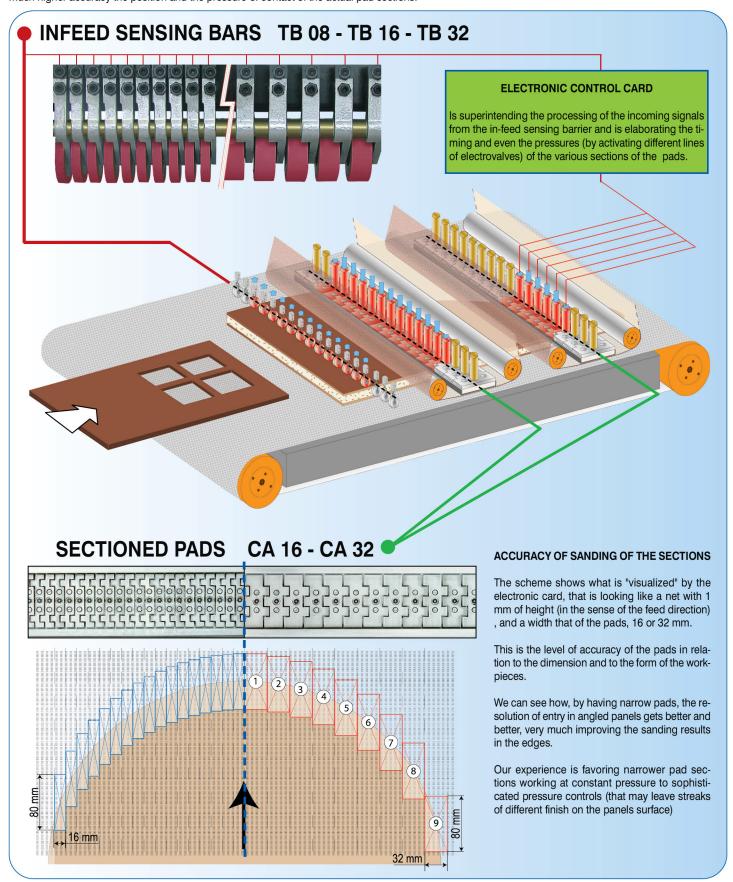
Finishing Units of Series S sanding - K calibrating

ELECTRONIC CONTROLLED SECTIONED PAD COMPLEX: THE MECHANICAL INFEED SENSING BAR

An in-feed sensing bar detects form and size of work-pieces; we utilize a MECHANICAL sensing bar (to avoid problems of sensing the feed belt when processing thin work-pieces or rounded edges giving wrong positions) constituted by special long lasting "vulcolan" covered wheels, all set at 1 mm below the thickness set for the work-pieces in the machine (the pre-load is of course adjustable). - The contact of each wheel with a pannel gives a signal ON to its related inductive proximity switch (there is no phisical contact, therefore no wearing) and the input signal is received and elaborate by the main electronic control of the pads that is giving the out-put signal to each pad-section when it is time to activate, considering also the hysteresis between the electro-valve and the delay of the time of movement of the single pad.

The pitch between the wheels on our sensing bars can be of 8 - 16 - 32 mm respectively for the bars TB 08 - TB 16 - TB 32

Of course the smaller the pitch the more accurate will be the definition of actual dimensions of the work-pieces, therefore allowing the system to determine with much higher accuracy the position and the pressure of contact of the actual pad sections.



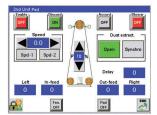
Series S sanding - K calibrating: Accessories & Options

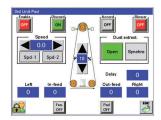


PLC VISION

The PLC panel VISION enable the visualization in a touch-screen monitor of the actual setup data and operation settings of the machine, to be filed in a number of complete working programmes.











The PLC contains a number of pages each for a machine function, that can be included in working programmes, to store and recall with own codes.





Oscillating blowers (standard)

Oscillating air jet blowers for sanding belt cleaning, with high efficiency jets.





Disk brakes

Pneumatic operated disk brakes to stop the working units within few seconds from emergency.

Sanding belt oscillation system



Sanding belt oscillation system with electronic dual-photocell.

Complete with safety micro-switch to stop the machine in case of misalignment or breakage of the abrasive belt.







Main technical data

Useful working widths	1350	[mm]
Longitudinal sanding belt dimensions	1380 x 2620	[mm]
Cross sanding belt dimensions	150 x 7350	[mm]
Standard machine opening	3 ÷ 160	[m/min]
Feed speed of calibrating machines	3 ÷15	[m/min]
Feed speed of sanding machines	4 ÷ 20	[m/min]

Air volume required for each unit	ø outlet 20	24	28	[m/s]
Each longitudinal working unit	160 [mm] 1447	1737	2026	[m³/h]
Each F250/350 - S18/25 - SB18/25	160 [mm] 1447	1737	2026	[m³/h]
W180 - planer unit	200 [mm] 2261	2714	3166	[m ³ /h]

Base frame

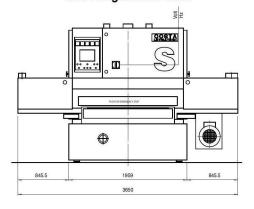




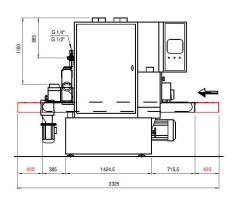




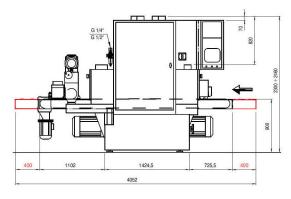
Machine with Cross belt unit and Longitudinal units



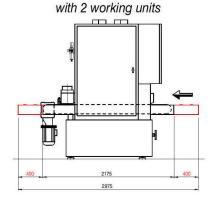
version with 1 cross belt unit and 2 longitudinal units



version with 2 cross belt units and 2 longitudinal units



Machine with Longitudinal units



We reserve the right to change features without any notice



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